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1	BEFORE THE ARIZONA COI	RPORATION COMMRSIGNIVED
2	WILLIAM A. MUNDELL CHAIRMAN	2001 SEP 27 A 11: 05
3 4	JIM IRVIN COMMISSIONER MARC SPITZER COMMISSIONER	AZ CORP COMMISSION DOCUMENT CONTROL
5	COMMISSIONER	
6	IN THE MATTER OF INVESTIGATION INTO U S WEST COMMUNICATION, INC.'S COMPLIANCE WITH CERTAIN	) <b>DOCKET NO. T-00000A-00-0194</b>
8 9	WHOLESALE PRICING REQUIREMENTS FOR UNBUNDLED NETWORK ELEMENTS AND RESALE DISCOUNTS.	) NOTICE OF FILING STAFF'S PHASE II-A SWITCHING REBUTTAL TESTIMONY
0	Arizona Corporation Commission Staff ("S	taff") hereby files the redacted rebuttal testimony
1	of William Dunkel; in the above-referenced matter	r. Unredacted versions are being provided to the
2	Hearing Division and those parties who are signat	ories to the Protective Agreement herein.
4	RESPECTFULLY SUBMITTED this 27 <sup>th</sup>	day of September, 2001.
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24	September, 2001 with:	SEP 27 2001
25	Docket Control Arizona Corporation Commission	DOCKETED BY
26 27	1200 West Washington Street Phoenix, Arizona 85007 Public Version	much

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#### BEFORE THE

#### ARIZONA CORPORATION COMMISSION

IN THE MATTER OF INVESTIGATION	
INTO QWEST CORPORATIONS'	)
COMPLIANCE WITH CERTAIN WHOLESALE	) DOCKET NO. T-00000A-00-0194
PRICING REQUIREMENTS FOR	) PHASE II-A
UNBUNDLED NETWORK ELEMENTS	)
AND RESALE DISCOUNTS	)

#### DIRECT TESTIMONY AND SCHEDULES

OF

#### WILLIAM DUNKEL

ON BEHALF OF

THE STAFF OF THE ARIZONA CORPORATION COMMISSION

SEPTEMBER, 2001

**PUBLIC COPY** 

I		1. STATEMENT OF QU	JALIFICATIONS AND INTRODUCTION
2			
3	Q.	PLEASE STATE YOUR NAME AND Y	OUR BUSINESS ADDRESS.
4	A.	My name is William Dunkel. My busine	ss address is 8625 Farmington Cemetery Road,
5		Pleasant Plains, Illinois 62677.	
6			
7	Q.	WHAT IS YOUR PRESENT OCCUPAT	TION?
8	A.	I am a consultant providing services in te	lephone rate proceedings. I am the principal of
9			as established in 1980. Since that time, I have
10			telephone regulatory proceedings throughout
11		the country. I have participated in over 1.	30 state regulatory telephone proceedings before
12		over one-half of the state commissions in	the United States, as shown on Appendix A
13		attached hereto. I have participated in tele	ephone regulatory proceedings for over 20
14		years.	
15			
16		I currently provide, or in the past have pro-	avidad gamiaga in talagamanania stigas
			ovided, services in telecommunications
17		proceedings to the following clients:	
8		The Public Utility Commis	ssion or the Staffs in the States of:
9			
20		Arkansas	Missouri
21		Arizona	New Mexico
22		Delaware	U.S. Virgin Islands
23		Georgia	Utah
24		Guam	Virginia
25		Illinois	Washington
26 27		Maryland Missississis	Kansas
28		Mississippi	
29		The Office of the Delatic A	Associate and the association for the state of the state
,,		The Office of the Public A	dvocate, or its equivalent, in the States of:

1	Colorado	Missouri
2	District of Columbia	New Jersey
3	Georgia	New Mexico
4	Hawaii	Ohio
5	Illinois	Oklahoma
6	Indiana	Pennsylvania
7	Iowa	Utah
8	Maine	Washington
9	Florida	
10		
11	The Department of Administration	in the States of:
12		
13	Illinois	South Dakota
14	Minnesota	Wisconsin
15		
16		
17 Q.	ON WHOSE BEHALF ARE YOU TESTIFYING	?
18 A.	I am testifying on behalf of the Staff of the Arizon	a Corporation Commission (ACC).
19		
19		
20 Q.	HAVE YOU PREVIOUSLY PARTICIPATED IN	NANY PROCEEDINGS IN
21	ARIZONA?	
22 A.	Yes. Most recently, I filed testimony on behalf of	the ACC Staff in Phase II of this
23	proceeding, Docket No. T-00000A-00-0194. In ac	ddition, I filed testimony on behalf of
24	the ACC Staff in the general rate case, Docket No	. T-01051B-99-0105. I also filed
25	rebuttal testimony in Docket No. T-01051B-97-06	89 on behalf of the ACC Staff
26	regarding depreciation. In addition, I conducted a	Cost of Service Study on behalf of the
27	Staff of the Arizona Corporation Commission in a	n undocketed matter preparing a cost
28	study pertaining to Qwest Corporation (formerly U	JS West Communications (USWC)). I
29	was a rate design witness in general rate case, Doo	eket No. E-1051-93-183, involving
30	USWC on behalf of the ACC Staff.	
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- 1 Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?
- 2 A. By agreement among several of the parties, certain issues in Phase II were deferred to this
- phase (Phase II-A) of this proceeding. The purpose of my testimony is to present Staff's
- 4 recommendation pertaining to the issues that are being addressed in this phase of this
- 5 proceeding. In addition, I will respond to the Direct testimony filed by Qwest in this
- 6 phase of this proceeding.

#### II. STAFF RECOMMENDATION

- 9 O. WHAT RATES DOES STAFF RECOMMEND FOR THE SERVICES BEING
- ADDRESSED IN PHASE II-A OF THIS PROCEEDING?
- 11 A. The rates that Staff recommends are shown on Schedule WD-1 attached hereto.

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#### III. MODEL USED AND INPUTS

- 14 Q. WHAT MODEL DID STAFF USE IN ARRIVING AT THE STAFF RECOMMENDED
- 15 RATES?
- 16 A. Staff used the same model it used in Phase II of this proceeding, which is the HAI 5.2a
- model (Hatfield).

- 19 Q. PRIOR TO THIS PROCEEDING, THE ACC HAD ESTABLISHED UNE RATES IN
- DECISION NO. 60635 DATED JANUARY 30, 1998. WHAT MODEL DID THE
- 21 ACC RELY ON IN THAT DECISION?
- 22 A. Throughout that Decision, the ACC repeatedly relied on the Hatfield model. In addition,
- 23 the usage portion of the FCC Synthesis Model relies heavily on the HAI model.

<sup>&</sup>lt;sup>1</sup> Docket No. U-3021-96-448 et. al.

2 Q. WHAT INPUTS TO THE MODEL DID STAFF UTILIZE?

A. Staff used the inputs that the ACC had chosen in its Decision No. 60635. In that Decision, the ACC adopted a number of input values. For example, the ACC adopted 4 50% support facilities sharing with other utilities.<sup>2</sup> In this proceeding. I used those same 5 input values as determined by the ACC. For those inputs that were not addressed by the 6 7 ACC in Decision No. 60635, I used the inputs as determined by the FCC. The FCC held extensive proceedings to determine the appropriate input values. As a result of that 8 extensive analysis, the FCC in its 10<sup>th</sup> Order specified the values to be used for model 9 inputs. (Order FCC 99-304) The FCC used those input values in the FCC Model that 10 was used to determine the amount of federal universal service support for non-rural 11 carriers. There are hundreds of inputs to these models. The inputs Staff utilized are the 12 inputs that have been determined to be appropriate by the regulators. In Phase II, Staff 13 also utilized the HAI 5.2a model, used the ACC approved inputs, and used the FCC 14 inputs for those items that the ACC had not addressed. The costs that result from using 15

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#### IV. OVERHEAD COSTS

the ACC and FCC inputs in the HAI 5.2a model are shown on Schedule WD-2.

19 Q. WHAT TREATMENT OF OVERHEAD COST DOES STAFF PROPOSE?

A. Staff recommends the same treatment of overhead cost that it recommended in Phase II of this proceeding. As Staff discussed in Phase II of this proceeding, there are a number of problems with the expenses as proposed by Qwest. In Decision No. 60635, the ACC selected a 15% overhead factor. This 15% factor included the attributed, joint and

common overhead costs. The Arizona Court in the Jennings order did not remand that 1 15% factor.<sup>3</sup> 2 3 I recommend that the 15% overhead factor adopted by the Commission in Decision No. 60635 be used in this proceeding. This factor is applied to the "direct" cost. This 15% 5 factor specifically includes what Qwest calls the "attributed," and "common" costs. 6 7 In the prior Phase II of this proceeding, Qwest tried to claim that the 15% factor includes 8 only "common" overhead, and did not include the "attributed" costs. However, this 9 Owest position misstates the Commission Order. The Commission Order specifically 10 stated: 11 Therefore, we will adopt an overhead cost factor, including attributed, joint and 12 common costs, of 15 percent.4 13 14 In addition to the clear wording of the ACC's Order, it was also apparent from the 15 discussion in the Order that this Commission's selected factor did include the attributed 16 cost. For example, 17 In its Reply Brief, U S WEST claimed that only the 5 percent factor was 18 overhead, while the 22 percent is attributed costs.<sup>5</sup> 19 20 This makes it very clear that the 15% factor does not include just the "common" costs, 21 because Owest itself stated that the "common" cost was only 5%. Clearly, the 15% 22

factor includes more than just the "common" costs.

<sup>&</sup>lt;sup>2</sup> Page 20, ACC Decision No. 60635.

<sup>&</sup>lt;sup>3</sup> Jennings, 46 F. Supp. 2d 1004, 6, May 4, 1999 hereinafter referred to as the "Jennings Order."

<sup>&</sup>lt;sup>4</sup> Page 13, Decision No. 60635.

<sup>&</sup>lt;sup>5</sup> Page 12, Decision No. 60635.

8 Q. WHAT COST OF MONEY DID STAFF UTILIZE?

- 9 A. Staff used the 9.61% overall cost of money and associated capital structure from the
- ACC's March 30, 2001 decision in the general rate proceeding, Decision No. 63487.
- 11 Qwest's testimony in this phase of this proceeding states they also utilized the 9.61%
- overall cost of money from that Commission Decision.<sup>7</sup>

14 Q. WHAT DEPRECIATION RATES DID STAFF UTILIZE?

- 15 A. Staff utilized the depreciation rates that are calculated using the lives, net salvage, and
- other parameters as determined by the ACC in the most recent depreciation case, Docket
- 17 No. T-01051B-97-0689.

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19 **V. FILL FACTOR** 

- 20 Q. WHAT FILL FACTOR DID QWEST USE IN ITS COST STUDIES?
- 21 A. The fill factors that Qwest used varied. Qwest used fill factors as low as \*\* \*\*.8

<sup>&</sup>lt;sup>6</sup> (100 direct + 15 overhead (ACC Staff))/(100 direct + \*\* \*\* overhead (Qwest)) = 115/\*\* \*\* = \*\* of Qwest rate.

<sup>&</sup>lt;sup>7</sup> Brigham Direct, Phase II-A, page 7, line 14.

Page 7, Qwest Cost Study 5635 Collocation: Remote Terminal, "Space Utilization Factor."

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In Decision No. 60635, the ACC did not address all fill factors, but for the fill factors that 2

it did address, the ACC selected fill factors that were significantly higher than what

Owest has proposed. In that prior case, Owest had claimed that for cable "approximately 4

35% of its plant is currently in use." The Commission adopted the fill factors that were

used in the Hatfield model, which were 71.5% for feeder, and approximately 51% for

distribution cable, after sizing for standard cables was considered. <sup>10</sup> For similar reasons. 7

Staff believes Owest's use of the \*\* \*\* fill factor in the current study is inappropriate. 8

Staff has replaced it with a 61.25% fill factor to be more consistent with the prior ACC

Order.11 10

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#### VI. OTHER OWEST ERRORS

Q. WERE THERE OTHER ERRORS IN QWEST'S STUDIES? 13

A. Yes. In the cost studies Staff reviewed in detail, there were other obvious errors that 14

improperly increased the cost. For example, the "Collocation: Remote Terminal" cost

study includes a calculation of the cost of a "cabinet" that would be installed outdoors. 16

That cabinet would house certain equipment. That "cabinet" is in effect the "building" 17

for the equipment that it houses. However, the Company increased that cabinet

investment by a "building" factor. Such "building" factors are the way that the cost of

the buildings that house equipment are added onto the cost of the equipment. Therefore,

Owest calculated the cost of the cabinet, which is a form of a "building", and then 21

<sup>Page 16, Decision No. 60635.
Page 16, Decision No. 60635.
This is the average of the 71.5% and 51% fill factors that the Commission found to be appropriate.</sup> 

- 1 increased that as if that outdoor cabinet was inside a building. It is not. Owest is effectively double charging for the building/cabinet. 2 3 Q. HAVE YOU CORRECTED THE COLLOCATION: REMOTE TERMINAL STUDY FOR THE ABOVE-REFERENCED PROBLEMS? 5 A. My revised calculation: Changes the space utilization factor from Qwest's \*\* \*\* factor to 61.25%; 1. .7 2. Utilizes the 15% overhead factor. The Qwest factors had the effect of increasing 8 the costs by approximately \*\* \*\* for overheads. 9 3. 10 Eliminates the building factors, since that cost was already directly included as the cost of the cabinet (which is effectively the building). 11 4. 12
- 12 4. Uses the cost of money and income tax factors that are based upon a 9.61% cost
  13 of money, and used the depreciation expense that is determined using the Commission
  14 prescribed depreciation parameters. In some cases, the factors that Qwest used were
  15 slightly different than the figures that are properly calculated using these inputs.

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The result of this analysis is a Staff proposed non-recurring charge of \$406.50 for remote collocation "space" (per standard mounting unit) as compared to Qwest's proposed rate of \$868.13.<sup>12</sup> The corrected recurring rate for this item is 63 cents, as compared to Qwest's proposal of \$1.35, as is shown on Schedule WD-3.

<sup>12</sup> Qwest Exhibit RHB-1, page 1, Item 8.8, attached to Mr. Brigham's Direct testimony in Phase II-A.

#### **VII. NON-RECURRING RATES**

- 2 O. WHAT HAS OWEST PROPOSED FOR NON-RECURRING RATES?
- 3 A. As shown on Qwest Exhibit RHB-1, Qwest has proposed numerous non-recurring rates.
- For example, for the first Analog Port<sup>13</sup>, Qwest proposes a non-recurring charge of
- \$145.57. Qwest's non-recurring cost studies generally consist of presenting estimates of
- 6 the time that each function would be required, multiplied by the loaded labor rate. Qwest
- weights the cost by Qwest's estimate of the "probability" that function would occur. For
- 8 example, the Owest non-recurring cost study for the "Analog Port" is attached as
- 9 Schedule WD-4.

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- Because some of the key inputs are based upon one's best judgement, the resulting cost
- results may vary greatly. For example, for the "Analog Port" Qwest alleges a non-
- recurring cost of \*\* \*\*, whereas AT&T/Worldcom/XO (Joint Intervenors)
- determined the non-recurring installation cost for the same item is \$1.68.<sup>14</sup> Qwest cost
- studies generally assume a relatively large amount of manual order activities by Qwest
- personnel, whereas the Joint Intervenors assume automated data transfer from the CLECs
- to Qwest.

- 19 It certainly appears that some of the time estimates and probabilities that Qwest has
- assumed are on the high side. For example, as shown on page 2 of Schedule WD-4,

<sup>&</sup>lt;sup>13</sup> Analog Line Side Port, first port. Qwest Exhibit RHB-1, page 1.

<sup>&</sup>lt;sup>14</sup> Exhibit RL-2, line 36, attached to Mr. Lathrop's Direct testimony in Phase II of this proceeding. Also see page 20 of Exhibit MH-1R attached to the Summary Testimony of Michael Hydock in Phase II of this proceeding. AT&T calculates the disconnect separately, as being \$1.57 non-recurring. Even if the installation and disconnect are considered together, as Qwest does, the non-recurring cost for the installation and disconnection of an Analog Port is either \$3.25 using AT&T's cost analysis, or

\*\* using Owest's cost analysis.

Qwest assumed that it would require an average of \*\* \*\* of manual effort to 1 "obtain telephone numbers", with a probability of "one." (The probability of "one" 2 3 means this function would always occur.) It certainly is logical that obtaining a telephone number is a procedure that could be computerized. 4 5 6 On the other hand, the Joint Intervenors non-recurring numbers are very likely on the low 7 side. They assume the computerized interface between the CLECs and Owest operates 8 with virtually no fallout that requires manual processing. Certainly an automated 9 interface is the goal, but I do not believe it is reasonable to assume virtually 100% successful automated interface. In my opinion, the correct number is between the Joint 10 Intervenors' and Owest numbers. Since the goal is to have a computer interface between 11 the CLECs and Qwest, I believe the appropriate non-recurring costs are closer to the Joint 12 Intervenors' numbers than to Qwest's numbers. The reasonable assumption is an 13 automated interface with some minor percent falling out, (and therefore requiring manual 14 15 intervention). The Joint Intervenors' study is closer to this than is Qwest's study. Qwest's study assumes significant manual effort required on all orders, and includes very 16 large time estimates for those manual functions, such as the previously referenced \*\* 17 18 \*\* to "obtain telephone numbers." The current non-recurring charge for the analog line port is \$42.58. This is clearly within the range the above analysis produces. 19 Therefore, I recommend the current non-recurring rate of \$42.58 for the analog port be 20

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continued, as is shown on Schedule WD-5.15

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1 The current rate is approximately 30% of the rate that Owest has proposed. It is also 2 several times the rate that the Joint Intervenors propose. 3 It should be noted that the all rates (including non-recurring) should be at least \*\* 4 below the Owest proposal, as a result of replacing the overhead factors that Owest used 5 with the ACC ordered 15% overhead factor, as previously discussed. 6 7 VIII. FEATURES 8 Q. PLEASE COMMENT ON THE CURRENT FEATURE RATES. A. Currently, the interconnection rates in effect for Qwest in Arizona include the cost 10 of features in the "port" recurring cost, and include no additional recurring charge for 11 features. There is also generally no separate non-recurring charge for features. In Phase 12 II of this proceeding, certain intervenors proposed the continuation of this practice. In 13 Phase II, the sponsors of the HAI (Hatfield) model stated that the feature cost was already 14 incorporated in the "port" cost in the HAI model, and therefore they believed no 15 additional charge for features was appropriate. 16 16 17 In its past filings in Phase II, Qwest proposed recurring rates for features, but in its filing 18 in this Phase II-A, Qwest has proposed no non-recurring charges for features, but instead 19 proposes to include the feature costs in the port rate.<sup>17</sup> 20

<sup>16</sup> Page 43, Hydock Direct; Page 31, Denney Direct; Phase II.

<sup>&</sup>lt;sup>15</sup> If there is a concern that some CLECs might fax in orders instead of using the more efficient electronic interface, a lower rate could be established for those orders that are presented through the electronic interface, with a higher rate for those orders that are sent to Qwest from the CLECs by fax.

Staff proposes to continue the current practice of incorporating the feature cost into the

2 port charge, thereby requiring no separate recurring charge for features.

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4 Therefore, the key question becomes how much additional cost, if any, should be added

5 into the port cost that is calculated using the HAI model. The HAI port cost includes the

cost of at least the initial programming for features, according to the parties presenting

the HAI model. 18 The switching inputs that the FCC adopted include the costs incurred

at installation, and within three years of installation, but do not include later upgrades.<sup>19</sup>

The FCC expenses are based on actual expenses.

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Qwest's Exhibit RHB-3 shows the summary of the additional costs that Qwest proposes to include in the recurring port charge for features. Exhibit RHB-3 shows Qwest includes significant costs for "Centrex 21" features. However, the list of services that are being offered to the CLECs, as shown on Exhibit RHB-1, does not show "Centrex 21" as being one of the services being offered. Therefore, "Centrex 21" costs should not be included in any additional features cost. In addition, Qwest calculates the feature cost per line from the one study as 65 cents per line.<sup>20</sup> Qwest also calculates a 51 cent feature cost from a different study. The cost studies that Qwest provided do not provide any explanation as to why the sum of these two calculations of features should be added to the port costs that are derived from the Hatfield model, which already includes some feature costs. Another problem is that in its "Capital Lease" study, the Company uses a

<sup>20</sup> See Owest Exhibit RHB-3.

<sup>&</sup>lt;sup>17</sup> Qwest Exhibit RHB-1 attached to Mr. Brigham's Direct testimony in Phase II-A.

<sup>&</sup>lt;sup>18</sup> Page 31, Denney Direct, Phase II.

<sup>&</sup>lt;sup>19</sup> Paragraphs 295 and 301, FCC Order 99-304 (Tenth Order and Report, CC Docket No. 96-45, 97-160).

- factor which marks up direct costs by approximately \*\* \*\* for overheads. I believe a
- 2 15% markup for attributed, joint, and common costs, which the Commission ordered in
- 3 Decision No. 60635, is appropriate, as discussed elsewhere.

- 5 Q. WHAT ADDITIONAL COSTS DO YOU RECOMMEND BE ADDED FOR
- 6 FEATURES TO THE "PORT" COSTS AS DETERMINED FROM THE HAI MODEL?
- 7 A. As the above discussion demonstrates, I believe the appropriate number is below Qwest's
- 8 proposed addition, but greater than the Joint Intervenors' proposal, which in Phase II was
- 9 no addition. The current recurring charge for the Analog Line Side Port is \$1.61.<sup>21</sup> The
- recurring port cost as calculated from the Hatfield model utilizing the ACC and FCC
- inputs is \$1.10 per month per line, as shown on Schedule WD-2 attached hereto. If the
- current rate was continued, this would effectively include a 51 cent per line per month
- allowance for the cost of providing features, above the feature cost that is already
- included in the HAI port cost. This is a reasonable figure that is well within the range
- established by the other parties in this proceeding. There is no valid reason from the
- evidence in the record to modify this rate. Staff recommends the current recurring rate of
- \$1.61 for line port be continued. This rate includes feature costs. Therefore, no
- additional recurring charge for features should be imposed.

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#### IX. CONCLUSION

- 21 Q. WHAT DO YOU RECOMMEND?
- 22 A. I recommend that the ACC adopt the rates shown on Schedule WD-1 for the reasons set
- 23 forth above.

2 Q. DOES THIS CONCLUDE YOUR TESTIMONY?

3 A. Yes.

 $<sup>^{21}</sup>$  Schedule WD-17 attached to Rebuttal testimony of William Dunkel in Phase II.

William Dunkel, Consultant 8625 Farmington Cemetery Road Pleasant Plains, Illinois 62677

#### **Oualifications**

The Consultant is a consulting engineer specializing in telecommunication regulatory proceedings. He has participated in over 140 state regulatory proceedings as listed on Appendix A attached hereto.

The Consultant has provided cost analysis, rate design, jurisdictional separations, depreciation, expert testimony and other related services to state agencies throughout the country in numerous telecommunication state proceedings. The Consultant has also provided depreciation testimony to state agencies throughout the country in several electric utility proceedings.

The Consultant made a presentation pertaining to Video Dial Tone at the NASUCA 1993 Mid-Year Meeting held in St. Louis.

In addition, the Consultant also made a presentation to the NARUC Subcommittee on Economics and Finance at the NARUC Summer Meetings held in July, 1992. That presentation was entitled "The Reason the Industry Wants to Eliminate Cost Based Regulation--Telecommunications is a Declining Cost Industry."

The Consultant provides services almost exclusively to public agencies, including the Public Utilities Commission, the Public Counsel, or the State Department of Administration in various states.

William Dunkel currently provides, or in the past has provided, services in telecommunications proceedings to the following clients:

The Public Utility Commission or the Staffs in the States of:

Arkansas Mississippi
Arizona Missouri
Delaware New Mexico
Georgia Utah
Guam Virginia
Illinois Washington

Maryland U.S. Virgin Islands

The Office of the Public Advocate, or its equivalent, in the States of:

Colorado

Maryland

District of Columbia

Missouri

New Mexico

Georgia

New Jersey

Hawaii

0 0100

Illinois

Ohio

Indiana

Pennsylvania

Iowa

Utah

Maine

Washington

The Department of Administration in the States of:

Illinois

South Dakota

Minnesota

Wisconsin

In April, 1974, the Consultant was employed by the Illinois Commerce Commission in the Electric Section as a Utility Engineer. In November of 1975, he transferred to the Telephone Section of the Illinois Commerce Commission and from that time until July, 1980, he participated in essentially all telephone rate cases and other telephone rate matters that were set for hearing in the State of Illinois. During that period, he testified as an expert witness in numerous rate design cases and tariff filings in the areas of rate design, cost studies and separations. During the period 1975-1980, he was the Separations and Settlements expert for the Staff of the Illinois Commerce Commission.

From July, 1977 until July, 1980, he was a Staff member of the FCC-State Joint Board on Separations, concerning the "Impact of Customer Provision of Terminal Equipment on Jurisdictional Separations" in FCC Docket No. 20981 on behalf of the Illinois Commerce Commission. The FCC-State Joint Board is the national board which specifies the rules for separations in the telephone industry.

The Consultant has taken the AT&T separations school which is normally provided to the AT&T personnel.

The Consultant has taken the General Telephone separations school which is normally provided for training of the General Telephone Company personnel in separations.

Since July, 1980 he has been regularly employed as an independent consultant in telephone rate proceedings across the nation.

He has testified before the Illinois House of Representatives Subcommittee on Communications, as well as participating in numerous other schools and conferences pertaining to the utility industry.

Prior to employment at the Illinois Commerce Commission, the Consultant was a design engineer for Sangamo Electric Company designing electric watt-hour meters used in the electric utility industry. The Consultant was granted patent No. 3822400 for a solid state meter pulse initiator.

The Consultant graduated from the University of Illinois in February, 1970 with a Bachelor's of Science Degree in Engineering Physics with emphasis on economics and other business-related subjects. The Consultant has taken several post-graduate courses since graduation.

### RELEVANT WORK EXPERIENCE OF WILLIAM DUNKEL

#### **ARIZONA**

U.S. West Communications Cost of Service Study

Wholesale cost/UNE case Docket No. T-00000A-00-0194
General rate case Docket No. E-1051-93-183
Depreciation case Docket No. T-01051B-97-0689
General rate case Docket No. T-01051B-99-0105

#### **ARKANSAS**

- Southwestern Bell Telephone Company Docket No. 83-045-U

#### **CALIFORNIA**

(on behalf of the California Cable Television Association)

General Telephone of California I.87-11-033

- Pacific Bell

Fiber Beyond the Feeder Pre-Approval Requirement

#### **COLORADO**

- Mountain Bell Telephone Company

General Rate Case Docket No. 96A-218T et al. Call Trace Case Docket No. 92S-040T Caller ID Case Docket No. 91A-462T General Rate Case Docket No. 90S-544T Local Calling Area Case Docket No. 1766 General Rate Case Docket No. 1720 General Rate Case Docket No. 1700 General Rate Case Docket No. 1655 General Rate Case Docket No. 1575 Measured Services Case Docket No. 1620

Independent Telephone Companies

Cost Allocation Methods Case Docket No. 89R-608T

#### **DELAWARE**

- Diamond State Telephone Company

General Rate Case
General Rate Case
PSC Docket No. 82-32
PSC Docket No. 84-33
Report on Small Centrex
PSC Docket No. 85-32T
General Rate Case
PSC Docket No. 86-20
PSC Docket No. 86-34

DISTI	RICT OF COLUMBIA	
- -	C&P Telephone Company of D.C.	
	Depreciation issues	Formal Case No. 926
	Depreciation issues	1 01111a1 Case 110. 720
FCC		
-	Review of jurisdictional separations	FCC Docket No. 96-45
FLOR	LIDA	
-	BellSouth, GTE, and Sprint	
	Fair and reasonable rates	Undocketed Special Project
		•
<u>GEOF</u>	RGIA	
-	Southern Bell Telephone & Telegraph Co.	
	General Rate Proceeding	Docket No. 3231-U
	General Rate Proceeding	Docket No. 3465-U
	General Rate Proceeding	Docket No. 3286-U
	General Rate Proceeding	Docket No. 3393-U
TT 4 TT		
HAW	<del></del>	
-	GTE Hawaiian Telephone Company	D 1 (N 04 0000
	Depreciation/separations issues Resale case	Docket No. 94-0298
	Resale case	Docket No. 7702
ILLIN	IOIS	
-	Geneseo Telephone Company	
•	EAS case	Docket No. 99-0412
. <b>-</b>	Central Telephone Company	
	(Staunton merger)	Docket No. 78-0595
-	General Telephone & Electronics Co.	
	Usage sensitive service case	Docket Nos. 98-0200/98-0537
	General rate case (on behalf of CUB)	Docket No. 93-0301
	(Usage sensitive rates)	Docket No. 79-0141
	(Data Service)	Docket No. 79-0310
	(Certificate)	Docket No. 79-0499
	(Certificate)	Docket No. 79-0500
-	General Telephone Co.	Docket No. 80-0389
_	Ameritech (Illinois Bell Telephone Company)	

Docket No. 98-0252

Docket No. 94-0315

Docket No. 83-0005

Docket No. 84-0111

Docket No. 81-0478

Docket No. 77-0755

Docket No. 77-0756

Docket No. 77-0757

Docket No. 78-0005

Alternative Regulation Review

Area code split case

General Rate Proceeding

(Concentration Identifier)

(Call Lamp Indicator)

General Rate Case

(Centrex filing)

(Com Key 1434)

(Card dialers)

#### **ILLINOIS (CONT.)**

	(Voice of the People)	Docket No. 78-0028
	(General rate increase)	Docket No. 78-0034
	(Dimension)	Docket No. 78-0086
	(Customer controlled Centrex)	Docket No. 78-0243
	(TAS)	Docket No. 78-0031
	(Ill. Consolidated Lease)	Docket No. 78-0473
	(EAS Inquiry)	Docket No. 78-0531
	(Dispute with GTE)	Docket No. 78-0576
	(WUI vs. Continental Tel.)	Docket No. 79-0041
	(Carle Clinic)	Docket No. 79-0132
	(Private line rates)	Docket No. 79-0143
	(Toll data)	Docket No. 79-0234
	(Dataphone)	Docket No. 79-0237
	(Com Key 718)	Docket No. 79-0365
	(Complaint - switchboard)	Docket No. 79-0380
	(Porta printer)	Docket No. 79-0381
	(General rate case)	Docket No. 79-0438
	(Certificate)	Docket No. 79-0501
	(General rate case)	Docket No. 80-0010
	(Other minor proceedings)	Docket No. various
-	Home Telephone Company	Docket No. 80-0220
_	Northwestern Telephone Company	
	Local and EAS rates	Docket No. 79-0142
	EAS	Docket No. 79-0519

#### **INDIANA**

- Public Service of Indiana (PSI)

Depreciation issues Cause No. 39584

Indianapolis Power and Light Company

Depreciation issues Cause No. 39938

#### **IOWA**

U S West Communications, Inc.

Local Exchange Competition

Local Network Interconnection

General Rate Case

Docket No. RPU-95-10

Docket No. RPU-95-11

#### **KANSAS**

- Southwestern Bell Telephone Company
Commission Investigation of the KUSF Docket No. 98-SWBT-677-GIT

- Rural Telephone Service Company

Audit and General rate proceeding

Request for supplemental KUSF

Docket No. 00-RRLT-083-AUD

Docket No. 00-RRLT-518-KSF

- Southern Kansas Telephone Company

Audit and General rate Proceeding Docket No. 01-SNKT-544-AUD

#### **MAINE**

- New England Telephone Company
General rate proceeding

Docket No. 92-130

#### **MARYLAND**

- Chesapeake and Potomac Telephone Company

General rate proceeding

Cost Allocation Manual Case
Cost Allocation Issues Case

Docket No. 7851
Case No. 8333
Case No. 8462

Verizon Maryland
 PICC rate case

Case No. 8862

USF case

Case No. 8745

#### **MINNESOTA**

- Access charge (all companies) Docket No. P-321/CI-83-203

U. S. West Communications, Inc. (Northwestern Bell Telephone Co.)

Centrex/Centron proceeding Docket No. P-421/91-EM-1002 General rate proceeding Docket No. P-321/M-80-306 Centrex Dockets MPUC No. P-421/M-83-466 MPUC No. P-421/M-84-24 MPUC No. P-421/M-84-25 MPUC No. P-421/M-84-26 General rate proceeding MPUC No. P-421/GR-80-911 General rate proceeding MPUC No. P-421/GR-82-203 General rate case MPUC No. P-421/GR-83-600 MPUC No. P-421/CI-84-454 WATS investigation Access charge case MPUC No. P-421/CI-85-352 Access charge case MPUC No. P-421/M-86-53 Toll Compensation case MPUC No. P-999/CI-85-582 Private Line proceeding Docket No. P-421/M-86-508

AT&T

Intrastate Interexchange Docket No. P-442/M-87-54

#### **MISSISSIPPI**

- South Central Bell

General rate filing Docket No. U-4415

MISS	<u>OURI</u>	
-	Southwestern Bell	
	General rate proceeding	TR-79-213
	General rate proceeding	TR-80-256
	General rate proceeding	TR-82-199
,	General rate proceeding	TR-86-84
	General rate proceeding	TC-89-14, et al.
	Alternative Regulation	TC-93-224/TO-93-192
-	United Telephone Company	
•	Depreciation proceeding	TR-93-181
-	All companies	
	Extended Area Service	TO-86-8
	EMS investigation	TO-87-131
NEW	JERSEY	
-	New Jersey Bell Telephone Company	
	General rate proceeding	Docket No. 802-135
	General rate proceeding	BPU No. 815-458
		OAL No. 3073-81
	Phase I - General rate case	BPU No. 8211-1030
		OAL No. PUC10506-82
	General rate case	BPU No. 848-856
		OAL No. PUC06250-84
	Division of regulated	BPU No. TO87050398
	from competitive services	OAL No. PUC 08557-87
	Customer Request Interrupt	Docket No. TT 90060604
<u>NEW</u>	MEXICO	
-	U.S. West Communications, Inc.	
	E-911 proceeding	Docket No. 92-79-TC
	General rate proceeding	Docket No. 92-227-TC
	General rate/depreciation proceeding	Case No. 3008
	Subsidy Case	Case No. 3325
-	VALOR Communications	
	Subsidy Case	Case No. 3300
OHIC		
-	Ohio Bell Telephone Company	
	General rate proceeding	Docket No. 79-1184-TP-AIR
	General rate increase	Docket No. 81-1433-TP-AIR
	General rate increase	Docket No. 83-300-TP-AIR
	Access charges	Docket No. 83-464-TP-AIR
-	General Telephone of Ohio	
	General rate proceeding	Docket No. 81-383-TP-AIR
-	United Telephone Company	
	General rate proceeding	Docket No. 81-627-TP-AIR
	•	

#### **OKLAHOMA**

- Public Service of Oklahoma
Depreciation case

Cause No. 96-0000214

#### **PENNSYLVANIA**

- GTE North, Inc.

Interconnection proceeding Docket No. A-310125F002

- Bell Telephone Company of Pennsylvania

Alternative Regulation proceeding

Automatic Savings

Docket No. P-00930715

Docket No. R-953409

Rate Rebalance Docket No. R-00963550

- Enterprise Telephone Company

General rate proceeding Docket No. R-922317

- All companies

InterLATA Toll Service Invest. Docket No. I-910010

- GTE North and United Telephone Company

Local Calling Area Case Docket No. C-902815

#### **SOUTH DAKOTA**

- Northwestern Bell Telephone Company

General rate proceeding Docket No. F-3375

#### **TENNESSEE**

(on behalf of Time Warner Communications)

- BellSouth Telephone Company

Avoidable costs case Docket No. 96-00067

#### **UTAH**

- U.S. West Communications (Mountain Bell Telephone Company)

General rate case Docket No. 84-049-01
General rate case Docket No. 88-049-07
800 Services case Docket No. 90-049-05
General rate case/ Docket No. 90-049-06/90-

incentive regulation 049-03

General rate case Docket No. 92-049-07
General rate case Docket No. 95-049-05
General rate case Docket No. 97-049-08

#### VIRGIN ISLANDS, U.S.

- Virgin Islands Telephone Company

General rate case Docket No. 264
General rate case Docket No. 277
General rate case Docket No. 314
General rate case Docket No. 316

#### **VIRGINIA**

- General Telephone Company of the South

Jurisdictional allocations Separations

Case No. PUC870029 Case No. PUC950019

#### **WASHINGTON**

- US West Communications, Inc.

Interconnection case
General rate case

- All Companies-

Docket No. UT-960369 Docket No. UT-950200 Analyzed the local calling areas in the State

#### **WISCONSIN**

- Wisconsin Bell Telephone Company
Private line rate proceeding
General rate proceeding

Docket No. 6720-TR-21 Docket No. 6720-TR-34

(2)	\$0.00	+	
(2)	3		CH Don't Answer/CH Busy Customer Programmable - Her Cite
90.00	\$0.00	1	Call Forwarding: Busy Line/Don't Answer Programmable Svc. Establishment
	90.00		Call Forwarding: Busy Line (Programmable)
60.00	90.00	1	Call Forwarding: Busy Line (Overliow) Don't Answer
5000	60.00	+	Call Forwarding, Double (Overhorn)
\$0.00	60.00		Call Forwarding: Busy Line (External) Don't Answer
\$0.00	50.00		Call Forwarding: Busy Line (Excernal
	\$0.00		Call Forwarding: Busy Line (Expanded)
3 6	\$0.00		Call Forwarding Variable Kemole
60.00	60.00		Call Forwarding title a globy Only
\$0.00	\$0.00		Call Forwarding incoming Only
\$0.00	60.00		Call Furward Duth
\$0.00	50.00		Call Contact Don't Anguage All Calls
(2)	\$0.00		Call Exclusion - Manual
(2)	\$0.00		Call Exclusion - Automatic
(2)	\$0.00		Call Drop
\$0.00	\$0.00		Bridging
\$0.00	\$0.00	_	Blocking of pay per call services
(2)	\$0.00		Automatic Route Selection-Common Eq. Per system
(2)	\$0.00		Automatic Line
\$0.00	\$0.00		Auto Caliback
(2)	\$0.00		Authorization Codes - per system
(2)	\$0.00		Audible Message Waiting
3 (5	50.00		Attendant Access Line - per station line
3 (5)	50.00		Account Codes - per system
(2)	90.00		iovvv duect bigging piocetti
00 08	6000		10VVV Direct Dislot Bioching
	60.00		9.11.3 Local Osage, rei Militale di Ose
(1)	20.00		3.1.2 Maing the out Fort Countries
\$42.58 (1)		\$1.51 (1)	9.11.1 Analog Line Side Port Each Additional
CAD 58 (1)		91 01	9.11 Local Switching
			9.0 Unbundled Network Elements (UNEs)
\$485.82	\$0.71000		FDI Terminations (per binder group [25-PR])
\$406.50	\$0.63000		Space (per Standard Mounting Unit)
			8.8 Remote Collocation
			8.0 Collocation
	40.0000	0.000	Over 30 lines, per line, per limitue
	\$0.00001	80,000,00	Cost to miles, per rime, per rimate
	\$0.0000	\$0.000.0	O to 20 Illies, per lime, per limete
	\$0,0004	\$0,00048	8 to 25 miles per mile per minute
	\$0,0008	\$0 00048	O lo 8 miles per mile per minute
			of lice all Mileane hands
			7.6.2.1 Tandem Transmission per Minute
	\$0.00059		7.6.2 I andem Switching per Migute of I ke
			21
	\$0.00147		7.6.1 End office call termination per minute of use
			7.6 Local Traffic
			7.0 Interconnection
Non-Recurring	Recurring Non	Fixed	
		Recurring	
			O TO INTO CHIMITING TO ISSUE
			STAFF RECOMMENDED RATES

(2)	\$0.00		Directed Call Pckup with Barge-in
	\$0.00		Dir Sta Sel/Busy Lamp Fld per arrangement
50	\$0.00		Data Call Protection (DMS 100)
	\$0.00	+-	Cusiom Kinging I nira Line (SnorvSnorVLong)
	- SO .00		Coston Ariging Tring Line (Shortonicit)
	6 8	-	Custom Dinging Third Line (Charlehad)
	\$ 80		Custom Ringing Third Line (Short) pro/Short)
	\$0.00		Custom Ringing Second Line (Short/Short/) and
	\$0.00	-	Custom Ringing Second Line (Short/Short)
	\$0.00		Custom Ringing Second Line (Short/Long/Short)
	\$0.00		Custom Ringing First Line (Short/Short/Long)
	\$0.00		Custom Ringing First Line (Short/Short)
	\$0.00		Custom Ringing First Line (Short/Long/Short)
	\$0.00		Conference Calling - Preset
(2)	\$0.00		Conference Calling - Meet Me
	\$0.00		Common Equipment per 1.544 Mbps facility (DS1)
	\$0.00		CLASS - Selective Call Rejection
	\$0.00		CLASS - Selective Call Forwarding
	\$0.00		CLASS - Priority Calling
(2)	\$0.00		CLASS - Last Call Return
	\$0.00		CLASS - Continuous Redial
\$0.00	\$0.00		CLASS - Calling Number Delivery - Blocking
	\$0.00		CLASS - Calling Number Delivery
	\$0.00		CLASS - Calling Name & Number
\$0.00	\$0.00		CLASS - Call Waiting ID
	(2)		CLASS - Call Trace
	\$0.00		CLASS - Anonymous Call Rejection
\$0	\$0.00		CFDA Incoming Only
	\$0.00		CFBL - Incoming Only
	\$0.00		CFBL - All Calls
	\$0.00		Centrex Plus to PBX/Key Non-Blocked
	\$0.00	1	Centrex Plus to PBX/Key Blocked
	\$0.00	+	Centrex Plus to IC Carrier
	\$ 60		Centrex Plus to Centrex Plus
	\$ 60.00	+	Centrey Pire DID numbers per number
5	8		Centrex Management System (CMS)
	-		Centrex Common Equipment
	\$ 00		Call Waiting/Cancel Call Waiting
	\$0.00		Call Waiting Terminating - Incoming Only
\$0.00	50 00		Call Waiting Terminating - All Calls
	\$0.00		Call Waiting Originating
	\$0.00		Call Waiting Indication - per timing state
	\$0.00		Call Waiting Dial Originating
	\$0.00		Call Transfer
	\$0.00		Call Pickin
	\$0.00		Call Park (Basic - Store & Retrieve)
	\$0.00		Call Hold/3-Way/Call Transfer
	\$0.00		Call Hold
	\$0.00		Call Forwarding: Variable - no call complete option
	\$0.00		Call Forwarding: Variable
\$0.00	\$0.00		Call Forwarding: Don't Answer (Programmable)
\$0.00	\$0.00	-	Call Forwarding: Don't Answer (Expanded)
(2)	\$0.00		Call Forwarding: Don't Answer
Non-Keculling	Kecurning	FIXEQ	
	1_	Recurring	
			OTATT RECOMMENDED RATES
	_	_	OTAGE DECOMMENDED DATES

(2)	\$0.00		UCD in bunt group - per line
(2)	\$0.00		Trunk Verification from Designated Station
\$0.00	\$0.00		Trunk Answer Any Station
\$0.00	\$0.00		Toll Restriction Service
(2)	\$0.00		Time of Day Routing - per line
(2)	\$0.00		Time of Day NCOS Update
(2)	\$0.00		Time of Day Control for ARS - per system
\$0.00	\$0.00		Time and Date Display
	\$0.00		Three Way Calling
\$0.00	\$0.00		Station Message Detail Recording (SMDR)
\$0.00	\$0.00		Station Dial Conferencing (6 Way)
	\$0.00		Station Camp-On Service - per main station
\$0.00	\$0.00		Speed Calling 8 Number
\$0.00	\$0.00		Speed Calling 30 Number
	\$0.00		Speed Calling 2# List Individual
	\$0.00		Speed Calling 2 Digit User
\$0.00	\$0.00		Speed Calling 2 Digit Controller
\$0.00	\$0.00		Speed Calling 1# List Individual
\$0.00	\$0.00		Speed Calling 1 Digit User
\$0.00	\$0.00		Speed Calling 1 Digit Controller
(2)	\$0.00		Query Time
(2)	\$0.00		Privacy Release
\$0.00	\$0.00		Outgoing Trunk Queuing
\$0.00	\$0.00		Outgoing Calls Barred
\$0.00	\$0.00		Night Service Arrangement
\$0.00	\$0.00		Network Speed Call
(2)	\$0.00		Music On Hold - per system
(2)	\$0.00		Message Waiting visual
	\$0.00		Message Waiting Indication Audible/visual
	\$0.00		Message Center - per main station line
	\$0.00		Make Busy Arrangements - per line
(2)	\$0.00		Make Busy Arrangements - per group
(2)	\$0.00		Loudspeaker Paging - per trunk group
\$0.00	\$0.00		Line Side Answer Supervision
(2)	\$0.00		ISDN Short Hunt
\$0.00	\$0.00		International Direct Dial Blocking
\$0.00	\$0.00		Incoming Calls Barred
(2)	\$0.00		Hunting: Multiposition with Music In Oueue
(2)	\$0.00		Hunting: Multiposition with Announcement in Queue
\$0.00	\$0.00		Hunting: Multiposition Series Hunting
(2)	\$0.00		Hunting: Multiposition Hunt Queuing
\$0.00	\$0.00		Hunting: Multiposition Circular Hunting
(2)	\$0.00		Hot line - ner line
(2)	503	T +	Group Intercom
\$0.00	\$0.00		Feature Display
(2)	50 00		Excility Restriction I eyel - ner system
60.00	\$0.00		Expensive Route Warning Tone - her system
90.00	50.00		Loo - Oct menace - bet stanon mie
\$0.00	600		EBC Col Interface per station line
6000	60.00		Dictional Commons on Francy
(2)	60.00		Distinctive Bing/Distinctive Call Waiting
2	•		
Non-Recurring	Recurring	Fixed	
		Recurring	
			STAFF RECOMMENDED RATES

Schedule WD-1 Page 3 of 4 Phase II-A Docket No. T-00000A-00-0194

STAFF RECOMMENDED RATES    Comment				'NR' Indicales Staff is presenting no recommendation on this rate.	N N
	rring rate.	sed non-recur	of the Owest propo	Staff recommends a non-recurring rate for analog line side port that is approximately 30%	
	adjustments, the	s. With other a	he overhead factor	automated interface. Owest rates would be reduced by 13% if the only correction was to t	
	s generally assumed	). Their studies	AT&T Exhibit MH-1)	efforts. In Phase II, Joint Intervenors proposed a zero non-recurring charge for features (/	
	nificant manual	ly assume sign	est studies general		
	e significantly less than	erally should be	However, they gene		2
STAFF RECOMMENDED RATES  UCD with Music After Delay UNIX Unbundled Packet Switch Da or Operator Svc. Routing Only Unbundled Packet Switch Da or Operator Svc. Routing Only Unbundled Packet Switch Da or Operator Svc. Routing Only Unbundled Packet Switch Da or Operator Svc. Routing Only Unbundled Packet Switch Da or Operator Svc. Routing Only Unbundled Packet Switch Da or Operator Svc. Routing Only Unbundled Packet Switch Da or Operator Svc. Routing Only Unbundled Packet Switch Da or Operator Svc. Routing Only Unbundled Packet Switch Da or Operator Svc. Routing Only Unbundled Packet Switch Da or Operator Svc. Routing Only Unbundled Packet Switch Da or Operator Svc. Routing Only Unbundled Packet Switch Da or Operator Svc. Routing Only UCD With Music Additional Packet Switch Da or Operator Svc. Routing Only UCD With Music Additional Packet Switch	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			L	3
STAFF RECOMMENDED RATES  UCD with Music After Delay  Special Resident Special Resident R					-
STAFF RECOMMENDED RATES  UCD with Music After Delay UCD with Music After Delay UCD with Music After Delay CMS - System establishment - Initial Installation CMS - System establishment - Initial Installation CMS - System establishment - Initial Installation CMS - System establishment charge, Initial Installation SMDRP - Archived Data NR DS1 Brit Trunk Port Message Trunk Group, Erist Trunk Message Trunk Group, First Trunk NR NR S11.5 DS1 Arabid Trunk Port  DS1 Installation Charge, per Switch DA or Operator Svs. Rouling Only S12.1 Development of Custom Line Class Code-DA or Operator Svs. Rouling Only S12.1 Development of Custom Charge (Catend Switch DA or Operator Svs. Rouling Only S12.1 Unbundled Packet Switch Dustomer Channel DS1 Installation Charge per Switch DA or Operator Svs. Rouling Only S12.1 Unbundled Packet Switch Dustomer Channel S2.1 Unbundled Packet Switch Dustomer Channel S2.1 Unbundled Packet Switch Customer Channel S2.1 Unbundled Packet Switch Customer Channel S2.1 Unbundled Packet Switch Customer Channel S2.1 Interface S2.1 Interface S2.1 Interface Switch Customer Channel S2.1 Interface Switch C					Ţ
STAFF RECOMMENDED RATES  UCD with Music After Delay CMS - System establishment - Initial Installation CMS - System establishment - Subsequent Installation CMS - System establishment - Subsequent Installation CMS - System establishment - Subsequent Installation SMDR-P - Archived Data SMDR-P - Service establishment charge, Initial Installation SMDR-P - Archived Data First Port Each Additional Port Each Additional Fort 9.11.5 Subsequent Order (Charge 9.11.6 Digital Line Side Port (Supporting BRI ISDN) I Local Message Trunk Fort Message Trunk Fort NR Message Trunk Group, First Trunk Message Trunk Group Message Trunk Message Message Message Message Message Message Message Message M				DOJ niciace	T
STAFF RECOMMENDED RATES  UCD with Music After Delay CMS - System establishment - Initial Installation CMS - System establishment - Initial Installation CMS - System establishment - Subsequent Installation CMS - System establishment charge, Initial Installation SMDR-P - Service establishment charge, Initial Installation SMDR-P - Archived Data NR NR NR SSTAF Port Set Port Set Port SSTAF Port SSTAF Data SMICH DA Or Operator Svs. Routing Only SSTAT Unbundled Packet Switch DA or Operator Svs. Routing Only SSTAT Unbundled Packet Switch DA or Operator Svs. Routing Only SSTAT Unbundled Packet Switch DA or Operator Svs. Routing Only SSTAT Unbundled Packet Switch Da Or Operator Svs. Routing Only SSTAT Unbundled Packet Switch Da Or Operator Svs. Routing Only SSTAT Unbundled Packet Switch Da Or Operator Svs. Routing Only SSTAT Unbundled Packet Switch Da Or Operator Svs. Routing Only SSTAT Unbundled Packet Switch Da Or Operator Svs. Routing Only SSTAT Unbundled Packet Switch Da Or Operator Svs. Routing Only SSTAT Unbundled Packet Switch Da Or Operator Svs. Routing Only SSTAT Unbundled Packet Switch Da Or Operator Svs. Routing Only SSTAT Unbundled Packet Switch Da Or Operator Svs. Routing Only SSTAT Unbundled Packet Switch Data Distribution Subtoop SSTAT Unbundled Packet Switch Data Data Data Data Data Data Data Dat	N.R.	NR.		DS3 Interface	
STAFF RECOMMENDED RATES  UCD with Music After Delay CMS - System establishment - Initial Installation CMS - System establishment - Subsequent Installation CMS - System establishment - Initial Installation CMS - System establishment charge system SMDRP - Service establishment charge system SMDRP - Service establishment charge. Initial Installation SMDRP - Archived Data SMDRP - Service establishment charge. Initial Installation SMDRP - Archived Data SMDRP - Service establishment charge. In SUBJECT Charge SMDRP - Service establishment charge. Initial Installation SMDRP - Service establishment charge. In SUBJECT Charge SMDRP - Service establishment charge. Initial Installation SMDRP - Service establishment charge. In SUBJECT Charge charge charge. In SUBJECT Charge per Switch DA or Operator Svc. Routing Only SUL Installation SUBJECT Charge per Switch DA or Operator Svc. Routing Only SUL DISTANT Functionality SUL DISTANT	NR.	NR.		- (	
STAFF RECOMMENDED RATES    Comparison				- 1	
STAFF RECOMMENDED RATES    Committee   Continue   Continu	N <sub>D</sub>	\$0.00		Customer Channel and CLEC Provided Loop	
STAFF RECOMMENDED RATES  UCD with Music After Delay UCD with Music After Delay CMS - System establishment - Subsequent Installation CMS - System establishment - Subsequent Installation CMS - System establishment charge, Initial Installation SMDR-P - Archived Data 9.11.5 Subsequent Order Charge 9.11.5 Subsequent Order Charge 9.11.5 Subsequent Order Charge 9.11.5 Subsequent Order Charge 9.11.5 Digital Line Side Port (Supporting BRI ISDN) First Port  First Port  9.11.7 Digital Trunk Ports DS1 Local Message Trunk Group, Each Additional DS1 Port I SSN Trunk Port 9.11.8 DS0 Analog Trunk Port 9.11.9 Installation Charge, per Switch DA or Operator Svs. Routing Only 9.12.1 Development of Custom Line Class Code-DA or Operator Svs. Routing Only 9.12.1 Development of Custom Line Class Code-DA or Operator Svs. Routing Only 9.12.1 Development of Custom Line Class Code-DA or Operator Svs. Routing Only 9.12.2 Automized Packet Switch DA or Operator Svs. Routing Only 9.12.1 Development of Switch DA or Operator Svs. Routing Only 9.12.1 Development of Switch DA or Operator Svs. Routing Only 9.12.2 Customized Custom Control Switch DA or Operator Svs. Routing Only 9.12.1 Operator Switch DA or Operator Svs. Routing Only 9.12.2 Customized Custom Switch DA or Operator Svs. Routing Only 9.12.2 Customized Charge Switch Outstoner Channel 9.14.8 URR 9.15.9 Switch Outstoner Channel 9.14.0 Switch Switch Outstoner Channel 9.14.1 Switch Outstoner Channel 9.14.2 Customized Charge Switch Outstoner Channel 9.14.2 Customized Charge Channel	NR	\$0.00		Customer Channel and Unbundled Distribution Subloop	
STAFF RECOMMENDED RATES    Comparison	NR.	\$0.00			
STAFF RECOMMENDED RATES    Common	\$0.00	NR.		DSLAM Functionality	
STAFF RECOMMENDED RATES    Recurring   Rec	\$0.00	N.		9.24.1 Unbundled Packet Switch Customer Channel	
STAFF RECOMMENDED RATES    Continued Delay   Continued Dela   Contin	3		-	9.24 Unbundled Packet Switching	
STAFF RECOMMENDED RATES    Common	N.			9.12.3 All Other Custom Routing	
STAFF RECOMMENDED RATES  STAFF RECOMMENDED RATES  UCD with Music After Delay  UCD with Music After Delay  CMS - System establishment - Initial Installation  CMS - System establishment installation  CMS - Packet Control Capability, per system  SMDR-P - Archived Data  9.11.5 Subsequent Order Charge  9.11.5 Subsequent Order Charge  9.11.5 Digital Trunk Port  Each Additional Port  9.11.7 Digital Trunk Rorts  DS1 PRI ISDN Trunk Port  Message Trunk Group, Each Additional  Message Trunk Rort  DS1 PRI ISDN Trunk Port  DS1 PRI ISDN Trunk Port  SMP ROST PRI ISDN Trunk Port  DS1 PRI ISDN Trunk Port  DS1 PRI ISDN Trunk Port  SMP ROST PRI ISDN Trunk Port  SMP ROST PRI ISDN Trunk Port  DS1 PRI ISDN Trunk Port  SMP ROST PRI ISDN TR	X.			9.12.2 Installation Charge, per Switch DA or Operator Svc. Routing Only	
STAFF RECOMMENDED RATES  UCD with Music After Delay  UCD with Music After Delay  CMS - System establishment - Initial Installation  CMS - System establishment - Subsequent Installation  CMS - System establishment - Subsequent Installation  CMS - Packet Control Capability, per system  SMDR-P - Service establishment charge, Initial Installation  SMDR-P - Service establishment charge, Initial Installation  SMDR-P - Archived Data  9.11.5 Subsequent Order Charge  9.11.5 Subsequent Order Charge  9.11.6 Digital Line Side Port (Supporting BRI ISDN)  First Port  Each Additional Port  Message Trunk Group, First Trunk  MR  9.11.8 DS0 Analog Trunk Port  First Port  SI/DID Trunk Port  First Port  Sach Additional Port  Substantial Port  Substantial Installation  Substantial Installation  Recurring  Mon-Recurring  Non  NR  NR  NR  NR  9.11.5 Digital Trunk Port  NR  NR  NR  Substantial Installation  Substantial Installation  NR  NR  NR  NR  NR  NR  NR  Substantial Installation  NR  NR  NR  NR  NR  NR  Substantial Installation  NR  NR  NR  NR  NR  NR  NR  NR  NR  N	S		_	9.12.1 Development of Custom Line Class Code-DA or Operator Svs. Routing Only	
STAFF RECOMMENDED RATES  UCD with Music After Delay  CMS - System establishment - Initial Installation  CMS - System establishment - Subsequent Installation  CMS - System establishment - Subsequent Installation  CMS - System establishment charge, Initial Installation  CMS - System establishment charge, Initial Installation  CMS - Packet Control Capability, per system  SMDR-P - Archived Data  SMDR-P - Archived Data  Subsequent Order Charge  Digital Line Side Port (Supporting BRI ISDN)  First Port  Each Additional Port  Digital Trunk Ports  DS1 Local Message Trunk Port  Message Trunk Group, Each Additional  DS1 PRI ISDN Trunk Port  DS1 PRI ISDN Trunk Port  DS3 PRI ISDN Trunk Port  DS3 PRI ISDN Trunk Port  Each Additional Port  SMS-PORT  S				-	
STAFF RECOMMENDED RATES  UCD with Music After Delay  CMS - System establishment - Initial Installation  CMS - System establishment - Subsequent Installation  CMS - System establishment charge, Initial Installation  SMDR-P - Service establishment charge, Initial Installation  SMDR-P - Archived Data  SMDR-P - Archived Data  SMDR-P - Archived Port  SMDR-P - Archived Data  NR - NR  NR  DST Data Line Side Port Supporting BRI ISDN  NR  NR  DST Data Line Side Port Supporting BRI ISDN  NR  NR  NR  DST Data Line Side Port Supporting BRI ISDN  NR  NR  NR  DST Data Line Side Port Supporting BRI ISDN  NR  NR  NR  NR  NR  DST Data Line Side Port Supporting BRI ISDN  NR  NR  NR  NR  NR  NR  NR  NR  NR	\$42.58 or less			Each Additional Port	
STAFF RECOMMENDED RATES    Control Comparison	\$42.58			First Port	
STAFF RECOMMENDED RATES    Continued   Con					
STAFF RECOMMENDED RATES  UCD with Music After Delay  CMS - System establishment - Initial Installation  CMS - System establishment - Subsequent Installation  CMS - System establishment charge, Initial Installation  CMS - Packet Control Capability, per system  SMDR-P - Service establishment charge, Initial Installation  SMDR-P - Archived Data  Subsequent Order Charge  Digital Line Side Port (Supporting BRI ISDN)  First Port  Each Additional Port  Digital Trunk Ports  DS1 Local Message Trunk Port  Message Trunk Group, Each Additional  Message Trunk Group, Each Additional  MR  MR  MR  MR  MR  MR  NR	NX	N			
STAFF RECOMMENDED RATES  UCD with Music After Delay  UCD with Music After Delay  CMS - System establishment - Initial Installation  CMS - System establishment - Subsequent Installation  CMS - System establishment - Subsequent Installation  SMDR-P - Service establishment charge, Initial Installation  SMDR-P - Archived Data  SMDR-P - Archived	N.	NR.		DS1 PRI ISDN Trunk Port	
STAFF RECOMMENDED RATES  Recurring  Won-Rec  UCD with Music After Delay  CMS - System establishment - Initial Installation  CMS - System establishment - Subsequent Installation  CMS - Packet Control Capability, per system  SMDR-P - Achived Data  Subsequent Order Charge  Digital Line Side Port (Supporting BRI ISDN)  First Port  Each Additional Port  Digital Trunk Ports  DSI Local Message Trunk Port  MR  MR  MR  MR  MR  MR  MR	N.	NR.		Message Trunk Group, Each Additional	
STAFF RECOMMENDED RATES    Continue	S.	N.		Message Trunk Group, First Trunk	
STAFF RECOMMENDED RATES  UCD with Music After Delay  UKS - System establishment - Initial Installation  CMS - System establishment - Subsequent Installation  CMS - Packet Control Capability, per system  SMDR-P - Service establishment charge, Initial Installation  SMDR-P - Archived Data  Subsequent Order Charge  Digital Line Side Port (Supporting BRI ISDN)  First Port  Each Additional Port  NR  Each Additional Port  NR	N.	NR.		DS1 Local Message Trunk Port	
STAFF RECOMMENDED RATES  UCD with Music After Delay  CMS - System establishment - Initial Installation  CMS - System establishment - Subsequent Installation  CMS - System establishment charge, Initial Installation  SMDR-P - Archived Data  SMDR-P				ā	
STAFF RECOMMENDED RATES  Recurring  Eixed  CDD with Music After Delay  CMS - System establishment - Initial Installation  CMS - System establishment - Subsequent Installation  CMS - Packet Control Capability, per system  SMDR-P - Activitied Data  SMDR-P - Machine Charge  Digital Line Side Port (Supporting BRI ISDN)  First Port  NR	NR	NR.		Each Additional Port	
STAFF RECOMMENDED RATES  Recurring  CLCD with Music After Delay  CMS - System establishment - Initial Installation  CMS - System establishment - Subsequent Installation  CMS - Packet Control Capability, per system  SMOR-P - Achive establishment charge, Initial Installation  SMOR-P - Achived Data  Subsequent Order Charge  Digital Line Side Port (Supporting BRI ISDN)	NR.	NR NR		First Port	
STAFF RECOMMENDED RATES  Recurring  UCD with Music After Delay  CMS - System establishment - Initial Installation  CMS - System establishment - Subsequent Installation  CMS - Packet Control Capability, per system  SMDR-P - Service establishment charge, Initial Installation  SMDR-P - Archived Data  Subsequent Order Charge				1	
Recurring Recurring Non-Recurring So.00	\$0.00			1	
Recurring Recurring Non-Rec Eixed Recurring Non-Rec	(2)			SMDR-P - Archived Data	
Recurring Recurring Non-Rec	(2)		_	SMDR-P - Service establishment charge, Initial Installation	
Recurring Recurring Non-Rec	(2)			CMS - Packet Control Capability, per system	
Recurring Recurring Non-Rec	(2)			CMS - System establishment - Subsequent Installation	
Recurring Recurring Non-Rec	(2)			CMS - System establishment - Initial Installation	
Recurring Recurring Non-Rec	\$0.00	\$0.00		UCD with Music After Delay	
Recurring Fixed Recurring		1			
	Non-Recurring		Fixed		
STAFF RECOMMENDED RATES			Recurring		
STAFF RECOMMENDED RATES					
STAFF RECOMMENDED RATES					
				STAFF RECOMMENDED RAILS	
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Schedule WD-1
Page 4 of 4
Phase II-A
Docket No. T-00000A-00-0194

Schedule WD-2 Page 1 of 2 Phase II-A Docket No. T-00000A-00-0194

Cost results from the HAI 5.2a Model using the ACC inputs from ACC Decision No. 60635, and for those inputs not addressed by the ACC, using the inputs the FCC adopted in its 10<sup>th</sup> Order (FCC Order 99-304).

Schedule WD-2 Page 2 of 2 Phase II-A Docket No. T-00000A-00-0194

	Ā	Annual Cost	Units			Unit Cost		
End office switching Line Port Non-Line Port	v	130,175,079 39,052,524 91,122,555	2,959,791 62,141,633,323	switched lines actual minutes	ww	1 10	per line/month per actual minute	(for rate per DEM, see "Cost detail" sheet)
Signaling network elements Links STP SCP	<b>v</b>	5 012,332 172,224 2,537,787 2,302,321	511 41.094.682,805 2.115.313,400	links TCAP+ISUP msgs TCAP queries	က က က <sub>ု</sub>	28.08 0 00006 0 00109	per link per month per signaling message per query	90
Transport network elements Decirated Sw+Sp Transport Switched	v	8 749,095 3 443,640	351,789 138,464	trunks trunks	ഗ ഗ	2 07 0 00021	per DS-0 equivalent per month per minute	per month
Special Transmission Terminal		19 263,003	351,789		SSS	4.56 0.00045 0.00065	per DS-0 equivalent per month per minute total per minute	per month
Common Transport Transmission Terminal	v	1,319,573	3,703,400,627 3,703,400,627	minutes minutes	<b>တ</b> တ	0.00034 0.00048 0.00081	per minute per leg (orig or term) : per minute total per minute	orig or term)
Transport Transmission Terminal	v	4,963,127 8,550,617	16,120,464,725 16,120,464,725	minutes minutes	SSS	0.00031 0.00053 0.00084	per minute per minute total per minute	
Tandem switch	· ·	1,963,948	3,322,868,975	minutes	•	0.00058	0.00059 per minute	
Operator systems	S	6,414,122						
Public Telephones	S	4,919,883						
Total (w/ Public)	σ	752,434,212				•		
Total cost of switched	S	19.51 p	per line/month					
network elements (w/o Public)		1 1 102 102		**************************************				

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## SCHEDULE WD-3 CONTAINS INFORMATION CLAIMED TO BE PROPRIETARY BY QWEST. THEREFORE, IT HAS BEEN DELETED FROM THIS TESTIMONY

## SCHEDULE WD-4 CONTAINS INFORMATION CLAIMED TO BE PROPRIETARY BY QWEST. THEREFORE, IT HAS BEEN DELETED FROM THIS TESTIMONY

# **NON-RECURRING PORT RATES**

DSO Analog Trunk Port First Port Each Additional	Analog Line Side Port - First Port Analog Line Side Port - Each Additional	
\$42.58 \$42.58	\$42.58 <b>\$4</b> 2.58	U-3021-96-448, et. al. Current Rates
\$123.11 \$28.75	\$145.57 \$95.75	Qwest Proposed (Exhibit RHB-1)
\$1.68 NA	\$1.68 NA	ATT/Worldcom/X Proposed (Hydock Direct Testimony May 18, 2001 ATT Exhibit MH-1) CONNECT DISCC
\$1.57 NA	\$1.57 NA	lcom/XO sed Direct 10ny 2001 hibit 1) DISCONNECT
		Staff Proposed Rate
\$42.58 \$42.58 or less	\$42.58 \$42.58	aff <u>ed Rate</u>

9.11.1 9.11.2

9.11.8

Schedule WD-5 Page 1 of 1 Phase II-A Docket No. T-00000A-00-0194